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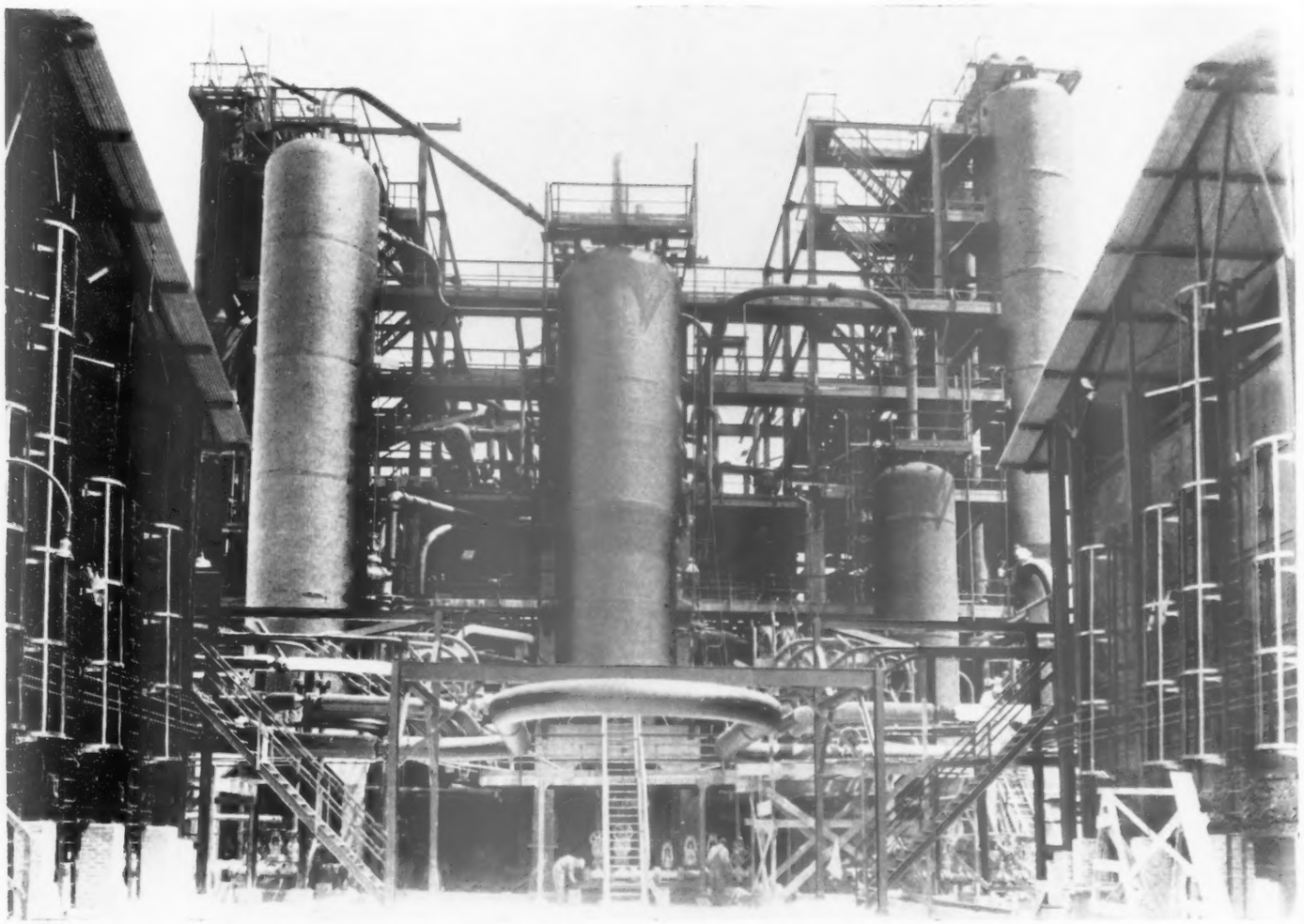
Combination Crude Polyform and Gas Reversion Plant



A combination crude polyform and gas reversion plant of the type under construction by several oil companies to supply aviation gasoline base stock and butane-butylene fractions as feed stock for alkylation or butadiene plants. By the circulation of propanes with the cracking stock and the removal of the b-b fraction, the process is capable of producing large quantities of this material for use in the war emergency. This plant processes 25,000 to 30,000 b/d of West Texas crude and employs the polyform principle on all of the cracking coils, the visbreaker, once-through gas oil cracking, recycle gas oil and naphtha cracking. At either side in the picture are large Lummus heaters which have a combined heat load of 300 million Btu/hr. and combined heat release of 400 million Btu/hr. The tower in the center is the evaporator, that on the left the crude flash tower, and that on the right the fuel oil flash tower. The towers on the extreme left background and the right background are the stabilizers and absorbers. (Photo from Lummus Co.)

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